

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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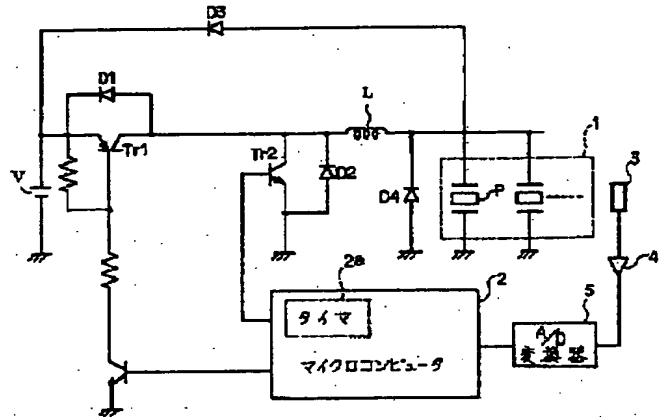
APPLICATION DATE : 13-05-92  
APPLICATION NUMBER : 04148319

APPLICANT : BROTHER IND LTD;

INVENTOR : SUZUKI MASASHI;

INT.CL. : B41J 2/30

TITLE : PIEZOELECTRIC ELEMENT DRIVE CIRCUIT



ABSTRACT : PURPOSE: To obtain a drive circuit which can constantly drive a piezoelectric element with an optimum pulse width even if the electrostatic capacity of the piezoelectric element is changed depending on the temperature thereof.

CONSTITUTION: A temperature sensor 3 is kept at approximately the same temperature as a laminated piezoelectric element 1 by a resin provided in a controller 2 forming a control circuit, corresponding to the output of the temperature sensor 3, corresponding to  $\pi\sqrt{LC}/2$ . At the time of printing, a pulse ON time  $T_{on}$  in accordance with the value outputted from the microcomputer. Therefore, an optimum drive pulse width can be determined from the temperature of the laminated piezoelectric element, the piezoelectric element electrostatic capacity, and L is an

*us = attached*

temperature. a ROM. it that. Recently. In this case, C is a capacitor of a coil.

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